

## INTERNATIONAL SEARCH REPORT

 International Application No  
 PCT/EP2005/000867

 A. CLASSIFICATION OF SUBJECT MATTER  
 C07C45/65 B01J23/644 B01J23/44 B01J19/00 C07C45/32

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)  
 C07C B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 337 424 B1 (KARIM KHALID ET AL) 8 January 2002 (2002-01-08) column 2, line 19 - line 39; claims 1,3; examples 1-3	1-16, 20, 24, 27
X	US 3 940 329 A (WILHELM ET AL) 24 February 1976 (1976-02-24) column 3, line 40 - line 41 claims 1,8; example 1	1-16, 24
X	US 4 246 202 A (CIHONSKI ET AL) 20 January 1981 (1981-01-20) claim 1; examples 1,3	1-16, 20, 24, 27
X	US 2001/001805 A1 (BROWN SCOTT H ET AL) 24 May 2001 (2001-05-24) claim 1; example 4; table VII	1-15
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*&\* document member of the same patent family

Date of the actual completion of the international search

18 January 2006

Date of mailing of the international search report

01.02.06

Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Holzwarth, A

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 127 310 A (BROWN ET AL) 3 October 2000 (2000-10-03) claim 1; example 4; table VII -----	1-15
X	WENKIN M ET AL: "The role of bismuth as promoter in Pd-Bi catalysts for the selective oxidation of glucose to gluconate" JOURNAL OF MOLECULAR CATALYSIS. A, CHEMICAL, ELSEVIER, AMSTERDAM, NL, vol. 180, no. 1-2, 11 March 2002 (2002-03-11), pages 141-159, XP004905799 ISSN: 1381-1169 abstract paragraphs '001.!, '2.4.2!, '003.!, '4.4.1!; figure 5; tables 3,4 -----	1-18,20, 21,24, 25,27
X	ALARDIN F ET AL: "Bismuth-promoted palladium catalysts for the selective oxidation of glyoxal into glyoxalic acid" APPLIED CATALYSIS A: GENERAL, ELSEVIER SCIENCE, AMSTERDAM, NL, vol. 215, no. 1-2, 13 July 2001 (2001-07-13), pages 125-136, XP004246315 ISSN: 0926-860X abstract paragraphs '2.3.1!, '003.!!; tables 1,5 -----	1-18,20, 21,24, 25,27
X	US 4 518 796 A (AOSHIMA ET AL) 21 May 1985 (1985-05-21)  column 1, line 5 - line 10 column 2, line 43 - line 55 claims 1,2,11 -----	1-18,20, 21,24, 25,27
X	US 2003/013904 A1 (CHATURVEDI SANJAY ET AL) 16 January 2003 (2003-01-16) paragraphs '0001!, '0084!; claims 1,3,4; examples -----	1-16,20, 24,27
X	TAKITA Y ET AL: "Promotion effects of an extremely low concentration of noble metals supported onto Bi <sub>2</sub> Mo <sub>3</sub> O <sub>12</sub> on the partial oxidation of iso-butane" APPLIED CATALYSIS A: GENERAL, ELSEVIER SCIENCE, AMSTERDAM, NL, vol. 225, no. 1-2, 8 February 2002 (2002-02-08), pages 215-221, XP004333307 ISSN: 0926-860X abstract paragraphs '02.2!, '003.!!; figure 5 ----- -/--	1-16,20, 24

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2005/000867

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 139 495 A (ANTOS ET AL) 13 February 1979 (1979-02-13) column 1, line 14 - line 33; claims 1,4,5 -----	1-16,24, 27
A	US 6 433 229 B1 (FISCHER ROLF ET AL) 13 August 2002 (2002-08-13) cited in the application -----	
A	RUTH K ET AL: "Mo-V-Nb Oxide Catalysts for the Partial Oxidation of Ethane - I. Preparation and Structural Characterisation" JOURNAL OF CATALYSIS, ACADEMIC PRESS, DULUTH, MN, US, vol. 175, no. 1, 1 April 1998 (1998-04-01), pages 16-26, XP004465688 ISSN: 0021-9517 -----	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/000867

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6337424	B1	08-01-2002	AT 309040 T DE 60114793 D1 WO 0183106 A2 EP 1276561 A2 JP 2003531874 T US 2002058847 A1	15-11-2005 15-12-2005 08-11-2001 22-01-2003 28-10-2003 16-05-2002
US 3940329	A	24-02-1976	NONE	
US 4246202	A	20-01-1981	NONE	
US 2001001805	A1	24-05-2001	WO 9837966 A1 US 6127310 A	03-09-1998 03-10-2000
US 6127310	A	03-10-2000	WO 9837966 A1 US 2001001805 A1	03-09-1998 24-05-2001
US 4518796	A	21-05-1985	DE 3018071 A1 FR 2456723 A1 GB 2051056 A	20-11-1980 12-12-1980 14-01-1981
US 2003013904	A1	16-01-2003	US 2004030202 A1	12-02-2004
US 4139495	A	13-02-1979	US 4139570 A	13-02-1979
US 6433229	B1	13-08-2002	CN 1343191 A DE 19911169 A1 WO 0055108 A1 EP 1161409 A1 ES 2204527 T3 JP 2002539180 T	03-04-2002 14-09-2000 21-09-2000 12-12-2001 01-05-2004 19-11-2002